

TOP SECRET RUFF

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Attachment to

26 August 1969

Page 1

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Reference to: Mission 1107-2, CHALDOVAR VLF FACILITY UNDER CONSTRUCTION
CHALDOVAR, USSR

1. SIGNIFICANCE:

THIS IS THE THIRD IDENTIFICATION IN THE USSR OF THE SECOND GENERATION GOLIATH-TYPE VLF FACILITY AND THE FIRST OF THIS TYPE TO BE IDENTIFIED IN THE SOUTHERN USSR.

2. LOCATION:

APPROXIMATELY 13.7 NM NNE OF CHALDOVAR AND APPROXIMATELY 44 NM NW OF FRUNZE AT 43-02N 073-37E.

3. REMARKS:

THE FIRST MAJOR VLF FACILITY IN THE SOVIET UNION WAS DEPLOYED BY 1952 ABOUT 9 NM SOUTH OF THE CITY OF GORKIY. THE FACILITY IS A RECONSTRUCTION OF A GERMAN GOLIATH VLF ANTENNA. TWO SECOND-GENERATION DESIGN VLF FACILITIES OF THIS TYPE HAVE PREVIOUSLY BEEN IDENTIFIED: ONE AT VILEYKA, USSR, IN 1961 AND ONE AT REMBUYEVO, USSR, IN LATE 1963. THE GOLIATH-TYPE VLF FACILITY IS COMPRISED OF THREE

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Page 2

CONTIGUOUS HEXAGONAL CONFIGURATIONS. EACH HEXAGON IS DEFINED BY SIX GIANT PERIMETER TOWERS WITH A SEVENTH TOWER AT THE GEOMETRIC CENTER OF THE HEXAGON. THESE TOWERS SUPPORT A HUGE OVERHEAD CANOPY OF WIRE FROM WHICH DOWNLEADS ARE SUSPENDED. THE GROUND AREA UNDER EACH CANOPY CONTAINS A NUMBER OF BURIED RADIAL WIRES WHICH FORM THE ANTENNA GROUND SYSTEM. THIS SECOND-GENERATION GOLIATH ANTENNA OCCUPIES APPROXIMATELY 1,445 ACRES, NOT INCLUDING THE GENERAL SUPPORT COMPLEXES. THE OBSERVED TIME REQUIRED TO CONSTRUCT A FACILITY OF THIS TYPE IS FROM THREE TO FOUR YEARS. THE VLF COMMUNICATION ANTENNA IS UTILIZED FOR COMMUNICATIONS NEEDS OF THE SOVIET FLEET OF SUBMERGED AND SURFACE VESSELS.

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4. DIMENSIONS/
SPECIFICATIONS:

THE DISTANCE BETWEEN PERIMETER TOWERS IS 598 METERS (1,962 FEET).

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26 August 1969

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Page 3

5. MISSION READOUT: THE FACILITY CONSISTS OF A LARGE VLF ANTENNA ARRAY (GOLIATH TYPE) IN THE EARLY STAGES OF CONSTRUCTION. SUPPORTS FOR SIX PERIMETER TOWERS AND SEVERAL SMALL BUILDINGS IN THE OPERATIONS AREA ARE OBSERVED. CONSTRUCTION OF THE CENTRAL TOWERS OR CONTROL BUILDING HAS NOT BEEN STARTED. A SUPPORT/CONSTRUCTION AREA WITH APPROXIMATELY 20 BUILDINGS IS IMMEDIATELY SOUTH OF THE ARRAY. THE FACILITY APPEARS VERY SIMILAR TO THOSE AT REMBUYEVO AND VILEYKA.

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40X ENLARGEMENT FACTOR

IEG/WGD

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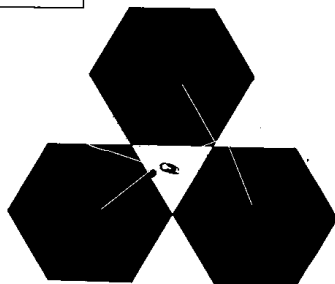
CHALDOVAR VLF FACILITY U/C
CHALDOVAR, USSR
43-02N 73-37E

MISSION 1107-2, 1-11 AUGUST 1969

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LINE DRAWING OF THE
VILEYKA VLF FACILITY



PERIMETER TOWER POSITION

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